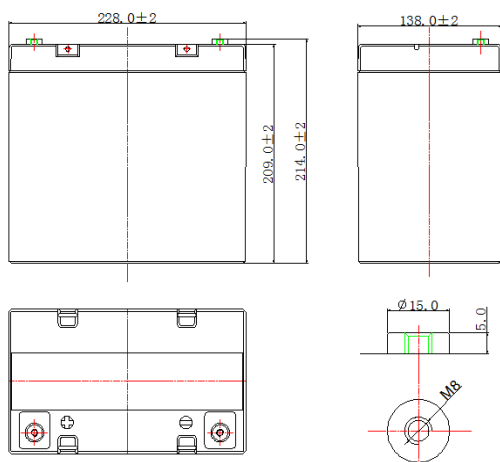


FL12550GD-M

(12V55Ah/10hr)



The rechargeable GEL batteries are lead-lead dioxide systems. Which are new products developed success base on SLA batteries. In contrast with AGM batteries, electrolyte of GEL batteries is composed of micro millimeter SiO₂ and H₂SO₄ gelled electrolyte is reversibility and steady three-dimensional network structure; Especial grid alloy and Gel technology provides for a more robust and longer battery life than traditional technologies and makes it ideally suited to mission critical and safety applications in solar, telecommunications, transport, power generation, military and other applications.

Application

- Solar and Wind Power System
- Medical Equipment
- Electric Power Vehicles/Toys
- Power tools
- Communication Equipment
- Control Equipment

General Features

- Sealed and maintenance free operation.
- Non-Spillable construction design.
- ABS containers and covers (UL94HB, UL94V-0) optional.
- Safety valve installation for explosion proof .
- High quality and high reliability.
- Exceptional deep discharge recovery performance.
- Low self discharge characteristic.
- Flexibility design for multiple install positions.

CONSTRUCTION

Component	Positive plate	Negative plate	Container	Cover	Safety valve	Terminal	Separator	Electrolyte
Raw material	Lead dioxide	Lead	ABS	ABS	Rubber	Copper	Fiberglass	Gelled acid

TECHNOLOGY PARAMETER

Battery model	FL12550GD-M			
Designed Floating Life	8-10 Years			
Capacity (25°C)	10hR(5.5A, 10.8V)	5hR(8.89A, 10.5V)		1hR(33.1A, 9.60V)
	55Ah	44.45Ah		33.1Ah
Dimensions	Length	Width	Height	Total Height
	228 ±2mm	138 ±2mm	209 ±2mm	214 ±2mm
Approx. weight (±5%)	17.9Kg (39.4 lbs)			
Internal resistance	Full charged at 25°C: Approx. 8.5mOhms			
Self discharge	3% of capacity declined per month at 25°C (average)			
Capacity Affected by Temp.(10HR)	40 °C	25 °C	0 °C	-15 °C
	102%	100%	85%	65%
Charge Voltage (25°C)	Cycle use		Float use	
	14.28-14.52V (-30mV/°C), max. Current: 11A		13.38-13.68V (-20mV/°C)	

FL12550GD-M (12V55Ah/10hr)

Constant current discharge ratings-amperes at 25°C

End Point Volts/Cell	5min	10min	15min	30min	1h	3h	5h	10h	20h
1.60V	172	130	98.2	57.5	33.1	14.8	9.69	5.67	2.97
1.65V	164	124	93.4	56.5	31.9	14.4	9.42	5.63	2.94
1.70V	154	117	88.6	55.4	30.6	13.9	9.15	5.56	2.92
1.75V	144	110	83.8	54.3	29.4	13.3	8.89	5.50	2.88
1.80V	135	105	79.0	53.2	28.2	12.7	8.62	5.50	2.85

Constant power discharge ratings-watts at 25°C

End Point Volts/Cell	5min	10min	15min	30min	1h	3h	5h	10h	20h
1.60V	310	236	179	105	60.9	27.5	18.0	10.6	5.58
1.65V	293	224	169	103	58.3	26.4	17.4	10.5	5.50
1.70V	274	210	159	100	55.8	25.4	16.8	10.3	5.43
1.75V	256	197	150	97.8	53.2	24.2	16.3	10.1	5.33
1.80V	237	185	141	95.3	50.8	23.0	15.7	10.1	5.24

